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Sent: Friday, July 9, 2021 12:37 PM
To: Koperski, Meghan
Cc: Ed Hollowell; Jodie_Gless@fpl.com; Ken_Frehafer@fpl.com; Marine Turtle Permits; Michael Bresette; EndangeredSpecies Resource; SCO@dep.state.fl.us; Vince Munne; Cody Mott; Jeff Guertin; Ryan Welsh; Eaton, Kristin; Jonathon Gorham; William.Nurnberger@fpl.com; audra.livergood@noaa.gov; Sciscente, Richard; Seth.Duston@fpl.com
Subject: [External_Sender] June 2021 FPL Marine Turtle Removal Monthly Report
Attachments: June 2021 Marine Turtle Captures.pdf; Monthly Report Notes 2021.pdf; FPL St. Lucie Capture Summary 2021.pdf

Mrs. Meghan Koperski
Tequesta Field Laboratory
19100 SE Federal Highway
Tequesta, FL 33469

Subject: Marine Turtle Removal Monthly Summary June 2021

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for June 2021. This month we captured 16 *Caretta caretta* and four *Chelonia mydas* in the intake canal of the St. Lucie power plant on Hutchinson Island. There were no mortalities or sea turtles sent for rehabilitation this month.

The primary 5-inch barrier net encountered severe amounts of algae this past month. IRG biologists performed around-the-clock monitoring of the intake canal and barrier net system either as warranted by sufficiently high debris intrusion levels or whenever directed by FPL oversight personnel. Furthermore, Underwater Engineering Services, Inc. inspected the primary barrier net and removed accumulated algae and debris as needed. Moreover, the primary barrier net has performed as designed and no turtles have been observed beyond the 5-inch net.

The tag numbers and morphometric data for all turtles captured during the month have been included with this report (see attachments/addendums). Also included is a spreadsheet for all captures, mortalities, injuries, and causal events delineated by species and by month for 2021. In addition, this spreadsheet tracks fresh scrapes incurred on captured turtles for the current month, as well as the entire year.

Please feel free to contact me with any questions.

Sincerely,

Steve
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Hearing Identifier: NRR_DRMA
Email Number: 1272

Mail Envelope Properties (CAOA4+R+4oUQ1dLD-Yh9Kc6++jUCPsNfKEJC3hsbNfSW1J7m-ZQ)

Subject: [External_Sender] June 2021 FPL Marine Turtle Removal Monthly Report
Sent Date: 7/9/2021 12:37:24 PM
Received Date: 7/9/2021 12:37:43 PM
From: Steve Weege

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Files	Size	Date & Time
MESSAGE	1704	7/9/2021 12:37:43 PM

June 2021 Marine Turtle Captures.pdf	85337
Monthly Report Notes 2021.pdf	66998
FPL St. Lucie Capture Summary 2021.pdf	86473

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**MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
JUNE 2021**

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
6/1/2021	<i>Caretta caretta</i>	1	KKY273/KKY274	90.0	91.0	95.9	81.4	62.7	69.1	86.9	South net
6/5/2021	<i>Caretta caretta</i>		KKY275/KKY276	73.2	74.1	79.9	74.5	58.7	57.6	61.3	Dip net
6/5/2021	<i>Chelonia mydas</i>		KKY277/KKY278	54.0	54.5	56.7	49.5	42.0	43.4	20.2	Hand capture
6/7/2021	<i>Caretta caretta</i>	2	KKY279/KKY280	85.3	86.5	92.1	80.4	67.0	64.3	91.7	North net
6/8/2021	<i>Caretta caretta</i>	3	KKL0681/KKL0680	63.0	64.0	68.1	63.8	54.4	47.7	36.9	Hand capture
6/8/2021	<i>Caretta caretta</i>	4	KKY281/KKY282	91.3	93.0	100.6	87.5	65.1	69.1	113.9	North net
6/8/2021	<i>Caretta caretta</i>		KKY283/KKY284	58.2	60.1	65.9	75.1	61.9	54.5	63.3	Hand capture
6/8/2021	<i>Chelonia mydas</i>		KKY285/KKY286	81.7	82.3	86.3	78.7	65.5	69.1	77.5	Hand capture
6/9/2021	<i>Caretta caretta</i>		KKY287/KKY288	64.9	65.9	68.4	68.2	55.6	51.5	43.1	North net
6/15/2021	<i>Caretta caretta</i>	5	KKY289/KKY290	88.8	89.1	92.2	90.1	74.1	68.5	107.8	North net
6/17/2021	<i>Caretta caretta</i>	6	KKY291/KKY292	85.4	86.5	91.3	82.4	67.7	66.2	97.2	North net
6/19/2021	<i>Caretta caretta</i>		KKY293/KKY294	81.3	81.9	86.6	80.4	65.7	62.0	80.1	South net
6/20/2021	<i>Chelonia mydas</i>	7	KKT313	50.9	51.0	53.9	46.0	38.0	40.5	16.5	South net
6/20/2021	<i>Caretta caretta</i>		KKY295/KKY296	66.5	67.9	71.9	68.1	56.4	52.4	43.9	North net
6/21/2021	<i>Caretta caretta</i>		KKY297/KKY298	57.2	58.7	62.8	58.2	51.0	46.1	33.4	South net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCl (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
6/22/2021	<i>Caretta caretta</i>	8	KKY299/KKY300	77.3	79.7	84.9	85.1	67.6	68.1	89.1	North net
6/23/2021	<i>Caretta caretta</i>	9	KKY301/EEL619	91.4	91.6	95.6	92.6	67.2	70.5	107.2	North net
6/23/2021	<i>Caretta caretta</i>		KKY302/KKY303	80.1	81.6	84.0	76.5	60.0	60.4	73.9	North net
6/24/2021	<i>Caretta caretta</i>	10	KKY304/KKY305	89.3	91.1	97.3	82.5	63.0	66.0	98.9	North net
6/25/2021	<i>Chelonia mydas</i>		KKY307/KKY308	50.9	51.0	53.3	46.7	40.0	41.5	15.5	Dip net

NOTES

1. Adult female loggerhead. Tail length = 170 mm. Mating wound in neck.
2. Adult female loggerhead. Tail length = 195 mm.
3. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/23/19, 12/15/19, 1/19/20, 7/24/20, 3/3/21, and 6/8/21.
4. Adult female loggerhead. Tail length = 220 mm. Healed carapace damage in top midline of shell (approximately 35cm long); possibly from an old boat strike injury.
5. Adult female loggerhead. Tail length = 265 mm.
6. Adult female loggerhead. Tail length = 207 mm.
7. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/21/18, 12/17/18, 4/3/19, 9/13/19, 9/26/19, 2/20/20, 8/12/20, 10/6/20, 2/15/21, and 6/20/21.
8. Adult female loggerhead. Tail length = 254 mm. Turtle missing large piece of posterior carapace (healed). Carapace damage affected all length measurements. Sex based on relative morphometrics and tail length (adult female).
9. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/6/13, and 6/23/21. New Inconel #KKY301 tag placed in left front flipper. Adult female loggerhead. Tail length = 192 mm. Turtle missing 30% of right front flipper and healed shark raking in carapace. Healed puncture wound in ventral side of neck (possibly from a stingray spine).
10. Adult female loggerhead. Tail length = 242 mm.

SMCL = Straight Minimum Carapace Length

SMCL = Straight Standard Carapace Length

CSCCL = Curved Standard Carapace Length

CMCW = Curved Maximum Carapace Width

SMCW = Straight Maximum Carapace Width

SMPL = Straight Midline Plastron Length

	Loggerheads (<i>Caretta caretta</i>)		Green turtles (<i>Chelonia mydas</i>)		Hawksbills (<i>Eretmochelys imbricata</i>)		Leatherbacks (<i>Dermochelys coriacea</i>)		Kemp's ridley (<i>Lepidochelys kempii</i>)		Overall Totals	
	Jun-21	Year to Date	Jun-21	Year to Date	Jun-21	Year to Date	Jun-21	Year to Date	Jun-21	Year to Date	Jun-21	Year to Date
Captures	16	92	4	36	0	1	0	0	0	3	20	132
Causal Mortalities	0	0	0	0	0	0	0	0	0	0	0	0
Non-causal Mortalities	0	1	0	0	0	0	0	0	0	0	0	1
Causal Injuries	0	0	0	1	0	0	0	0	0	0	0	1
Sent to rehab	0	11	0	1	0	1	0	0	0	0	0	13
Fresh Scrapes												
None	2	16	0	6	0	1	0	0	0	1	2	24
Minor	14	74	4	28	0	0	0	0	0	2	18	104
Moderate	0	2	0	2	0	0	0	0	0	0	0	4
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	0.0%	2.2%	0.0%	5.6%	N/A	0.0%	N/A	N/A	N/A	0.0%	0.0%	3.0%